Application 462B-00

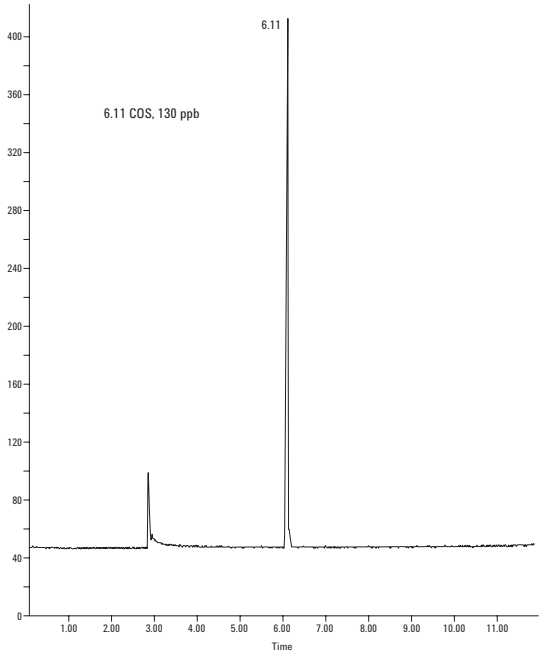
Agilent Monomer Analyzer

Impurities in Polymer Grade Ethylene and Polymer Grade Propylene

Technical Overview

Application Highlights

- A Mass Selective Detector (MSD) is used to detect trace impurities to the low ppb level. Such trace impurities include: arsine, phosphine, oxygenates, and sulfur compounds.
- A Pulsed Discharge Helium Ionization Detector (PDHID) is used to detect oxygen, nitrogen, and hydrogen to the low ppb level.
- A Vaporizer is used for the non-discriminating, repeatable conversion of liquid propylene to gas phase prior to injection.



Optional Configurations

Impurities in isoprene

Impurities in high purity styrene monomer

Analysis of vinyl chloride monomer

Analysis of trace C4 olefins (10 ppb) in polymer grade propylene

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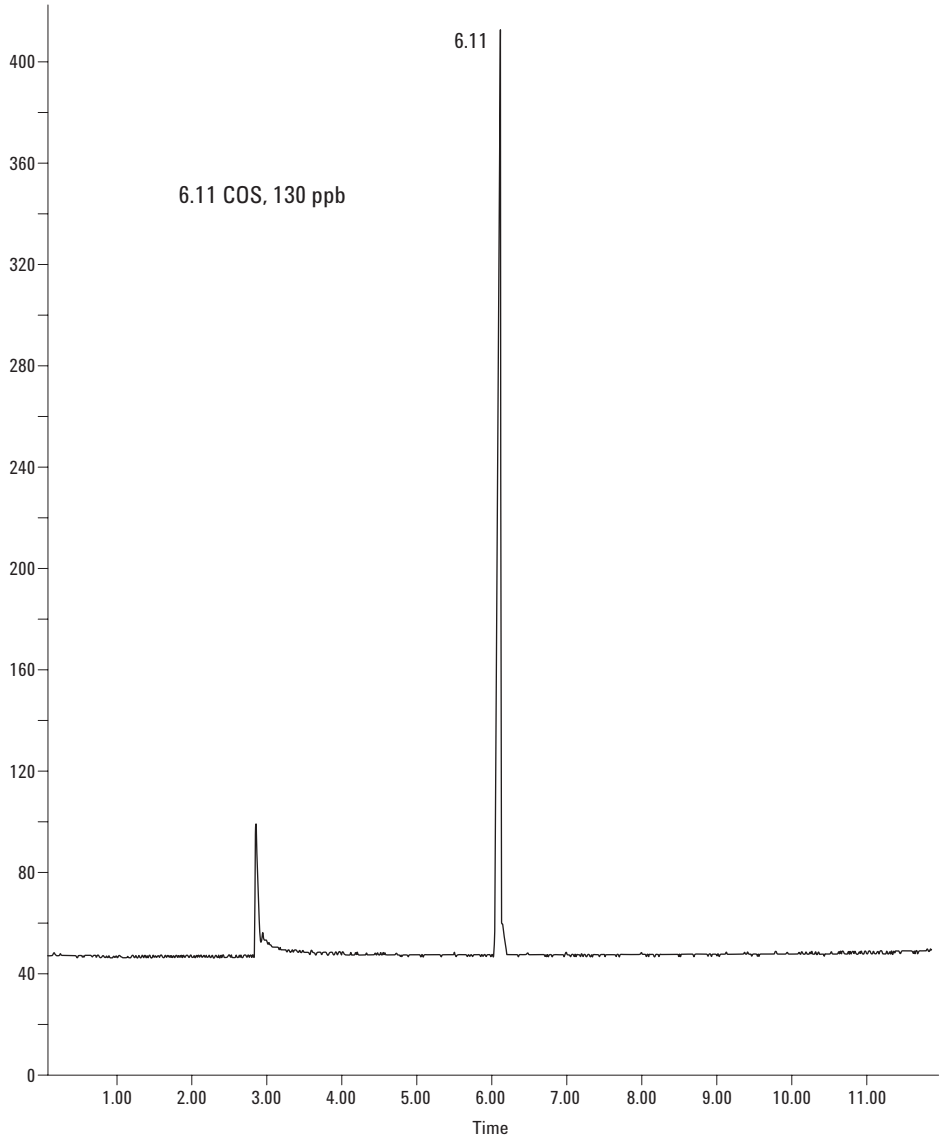

MSD and PDHID output of the Agilent monomer analyzer.

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